

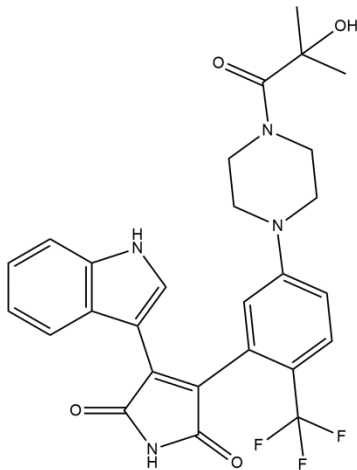
TCS 21311

10/19

ALTERNATE NAMES: 3-[5-[4-(2-hydroxy-2-methylpropanoyl)piperazin-1-yl]-2-(trifluoromethyl)phenyl]-4-(1H-indol-3-yl)pyrrole-2,5-dione; 3-[5-[4-(2-Hydroxy-2-methyl-1-oxopropyl)-1-piperazinyl]-2-(trifluoromethyl)phenyl]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione; JAK3 Inhibitor XII, NIBR3049

CATALOG #: B2927-5 5 mg
B2927-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₇H₂₅F₃N₄O₄

MOLECULAR WEIGHT: 526.51

CAS NUMBER: 1260181-14-3

APPEARANCE: Solid

PURITY: 95%

SOLUBILITY: ~50 mg/ml in DMSO

DESCRIPTION: TCS 21311 is a potent JAK3 (Janus kinase 3) inhibitor. It shows high selectivity for JAK3 over JAK1, JAK2 and TYK2 with IC₅₀ values of 8 nM, 1017 nM, 2550 nM and 8055 nM respectively. It also inhibits GSK-3β, PKCα and PKCθ with IC₅₀ values of 3 nM, 13 nM and 68 nM, respectively.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Haan, C., Rolvering, C., Raulf, F., et al. Jak1 has a dominant role over Jak3 in signal transduction through γc-containing cytokine receptors. *Chem Biol.* 18(3):314-23 (2011).
2. Thoma, G., Nuninger, F., Falchetto, R., et al. Identification of a potent Janus kinase 3 inhibitor with high selectivity within the Janus kinase family. *Journal of Medicinal Chemistry.* 54(1): 284-288 (2010).

RELATED PRODUCTS:

DiscoveryPak™ JAK Inhibitors Set (Cat. No. S236)
 MS-1020 (Cat. No. 1911)
 CP-690550 (Cat. No. 1622)
 WHI-P131 (Cat. No. 1853)
 WP1066 (Cat. No. 1809)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*